



# **Digitus DN-11009**

## **2 USB 2.0 Hi-Speed-Port Multifunction Router**

### **User's Manual**

Version 1.0

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# Chapter 1 Introduction

## 1.1 Hardware Specification

Digitus DN-11009 is a multifunction router. Besides the basic functions of router, Digitus DN-11009 has two additional USB host ports to support FTP server, print server, and webcam server. The following list shows the hardware specification for Digitus DN-11009.

- WAN Port x 1
- LAN Port x 4
- USB 2.0 Host Port x 2
- LED x 9
- Init Button (factory default and firmware upgrade)
- Power Adaptor Connector (DC 12V/1A)

## 1.2 Features

Digitus DN-11009 supports the following features:

- IP sharing
- WAN type : static ADSL, PPPoE, automatic IP, cable modem
- Print server (LPR)
- File server (FTP)
- Supports USB storage (USB hard drives, flash disks, memory sticks)
- FAT 16/32 file systems
- DDNS
- NAT (Network Address Translation): port trigger, virtual server, virtual DMZ
- Firewall: IP filter, MAC address filter, URL filter
- Easy to upgrade new version of firmware by using Web UI
- Web-based interface configuration and management: OS independent, easy-to-use

## Chapter 2      Product Overview

### 2.1 Package Contents

- Digitus DN-11009
- Power adaptor
- CD

### 2.2 Hardware Description

#### 2.2.1 Rear Panel

The rear panel includes a Power Inlet, a Init Button, four LAN Ports and one WAN Port.

*Power Inlet:* use DC IN 12V/1A adaptor.

*Init Button:* reset the parameters to the factory default values.

*LAN Port:* for twisted pair category 5 cable. The 4 LAN ports are for the connection to internal PCs.

*WAN Port:* for twisted pair category 5 cable. The WAN port is for the connection to ADSL modem.

#### 2.2.2 Front Panel

The front panel includes two USB Host Ports and nine LED Indicators.

*USB Host Port:* USB 1.1/2.0 low, full, and Hi-Speed compliant

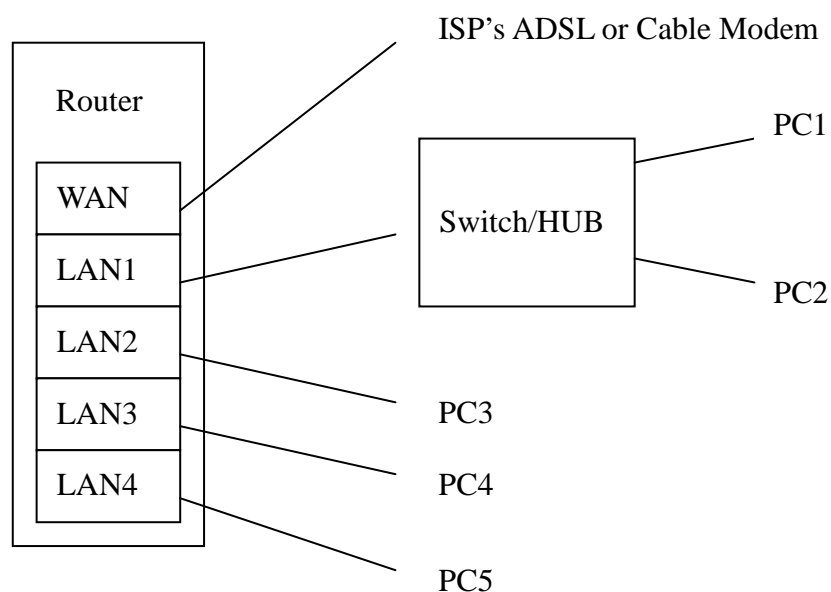
#### 2.2.3 LED Indicators

Indicators	Behavior	Description
Power	On	Power On
	Off	Power off/System error
Link	On	Network (WAN) connected
	Off	No physical connection to network (WAN)
Status	Blinking	Activity on network (WAN)
	Off	No activity on network (WAN)
LAN1	On	Network Connected (LAN1)

	Off	No physical connection to network (LAN1)
LAN2	On	Network Connected (LAN2)
	Off	No physical connection to network (LAN2)
LAN3	On	Network Connected (LAN3)
	Off	No physical connection to network (LAN3)
LAN4	On	Network Connected (LAN4)
	Off	No physical connection to network (LAN4)
USB1	On	USB device connected (USB1)
	Blinking	Connected USB device not supported (USB1)
	Off	No physical connection to USB device (USB1)
USB2	On	USB device connected (USB2)
	Blinking	Connected USB device not supported (USB2)
	Off	No physical connection to USB device (USB2)

## 2.3 Typical Usage

The following diagram shows a typical usage and connection of the Router and computers. All PCs connected to LAN ports can access the Internet via ISP's ADSL or cable modem connected to WAN port.



## Chapter 3 Installation

### 3.1 Hardware Connections

Make sure that your USB devices are powered off and that the Router's Power Adapter is disconnected.

Connect your PC to one of the Router's LAN port with a twisted-pair category 5 cable, 10baseT or 100baseTX.

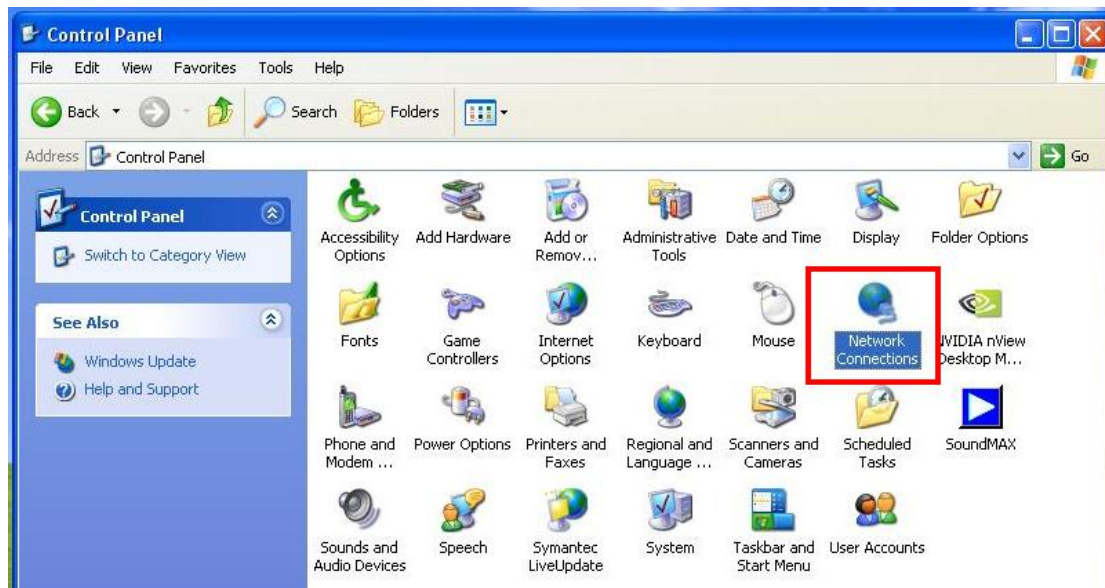
Connect the Router's WAN port to an ADSL modem with a twisted-pair category 5 cable, 10baseT or 100baseTX.

Connect the Power Adapter to the Router. The power indicator will light up and USB1 and USB2 indicators will flash in turn. When USB1 and USB2 indicators stop flashing, the Router starts to work normally. At this time, the Link indicator must light up.

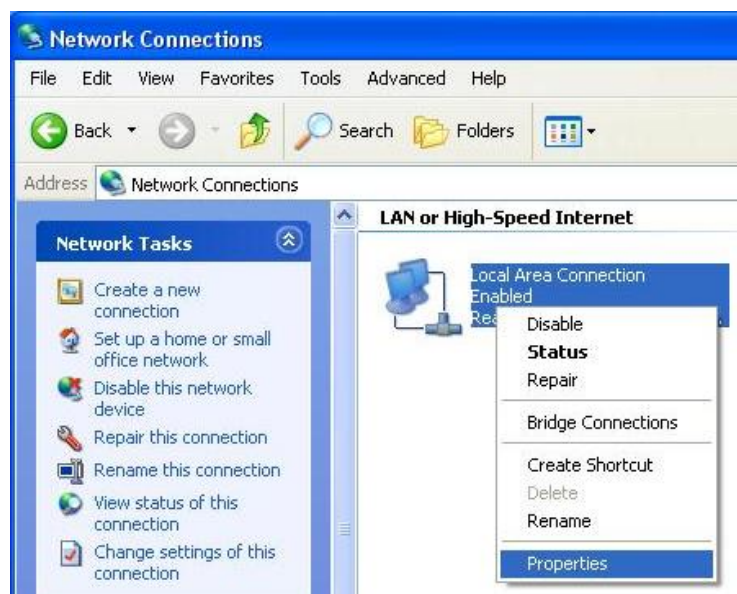
### 3.2 IP Setting on Windows



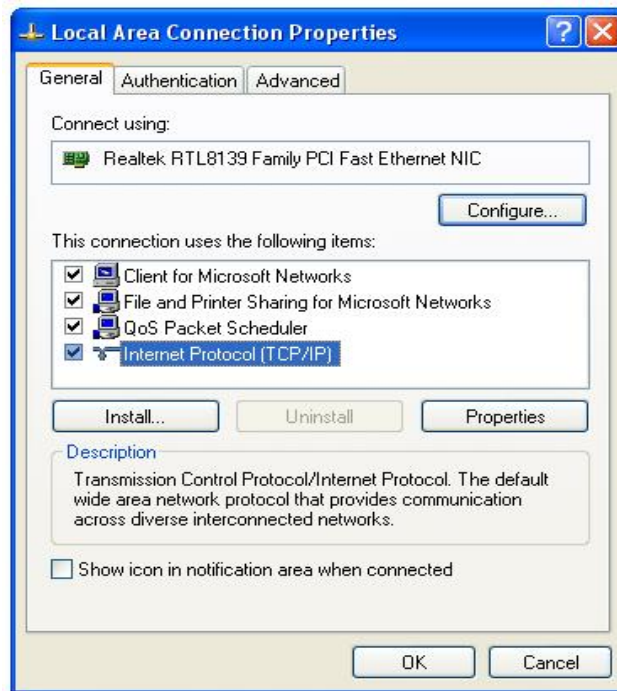
Go to desktop and click **Start** → **Control Panel**.



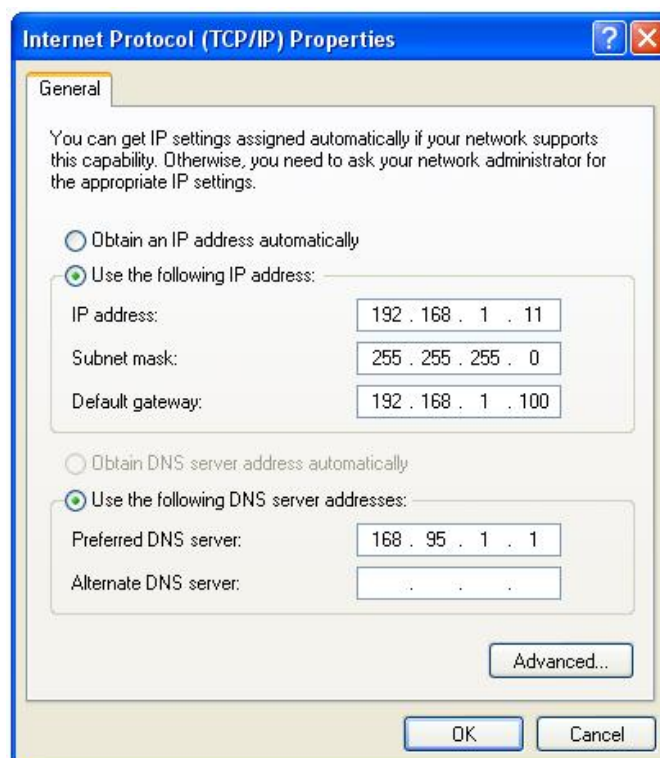
At control panel, double click **Network Connections**.



All your connections will be displayed on the window. Go to **Local Area Connection** and click mouse right button. A menu will appear, select **Properties**.



At Local Area Connection Properties window, select the **General** tab. Select **Internet Protocol (TCP/IP)** and then click **Properties**.



If you use DHCP to get IP automatically, select **Obtain an IP address automatically** and then click **OK** to finish the setting. The router supports DHCP, therefore any PC connected to LAN port of



the router can automatically get IP address.

If you get IP manually, select **Use the following IP address**. The factory default router LAN IP address is 192.168.1.100. Therefore, we use an IP address located in 192.168.1.x block to get connect to the router. Here we use 192.168.1.11 as an example. Click **OK** to finish the setting.

### 3.3 Access Router Home Page from Web Browser

This router can be configured through its web pages. Follow the steps below to access the router web pages.



Start your Internet browser, enter **http://192.168.1.100** and press Enter.



A dialogue box will pop up to ask you for user name and password. The factory default User name is **admin**, password is **admin**. Enter the user name and password and then click **OK** to login.

The screenshot displays a web-based configuration interface for a router. At the top, a navigation bar includes links for 'Quick Setup', 'IP Configuration', 'NAT Setup', 'Firewall Setup', 'USB Application', 'System Setup', 'Status & Log', and 'Logout'. The 'IP Configuration' section is active, with sub-tabs for 'IP Setup', 'DHCP Server', 'Routing Table', and 'Miscellaneous'. The 'IP Setup' tab is selected, showing a form for 'IP Configuration - IP Setup'. The 'WAN Connection Type' is set to 'Automatic IP'. Below this, the 'WAN Static IP Setting' section is visible, with a note: 'If the connection type is ADSL static IP, please specify your static IP, subnet mask, and default gateway here. All of the information is obtained from your ISP.' The form includes input fields for 'IP Address', 'Subnet Mask', and 'Default Gateway'. At the bottom, the 'WAN DNS Setting' section is partially visible.

If you login successfully, the router main web page will appear and you can start to configure the router from web pages.

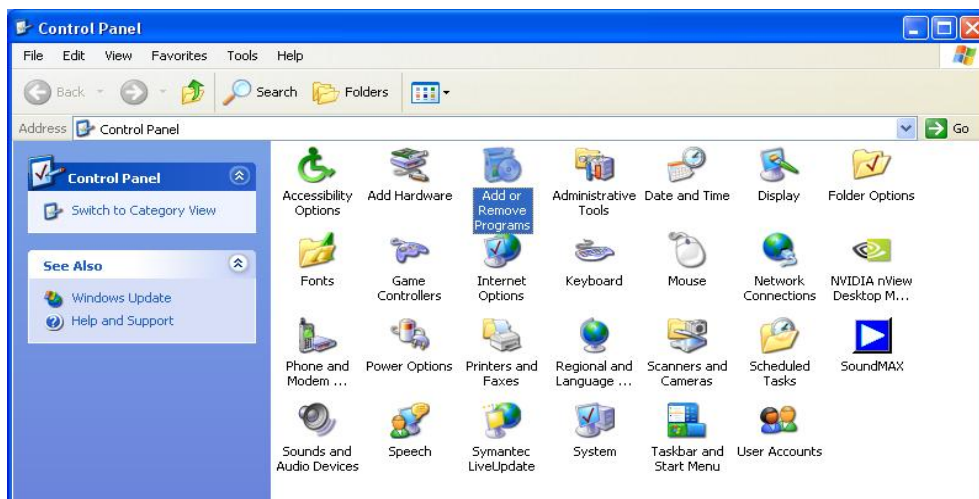
### 3.4 Enable UPnP on Windows

The UPnP (Universal Plug and Play) enables communication between any two devices under the command of any control device on the local network.

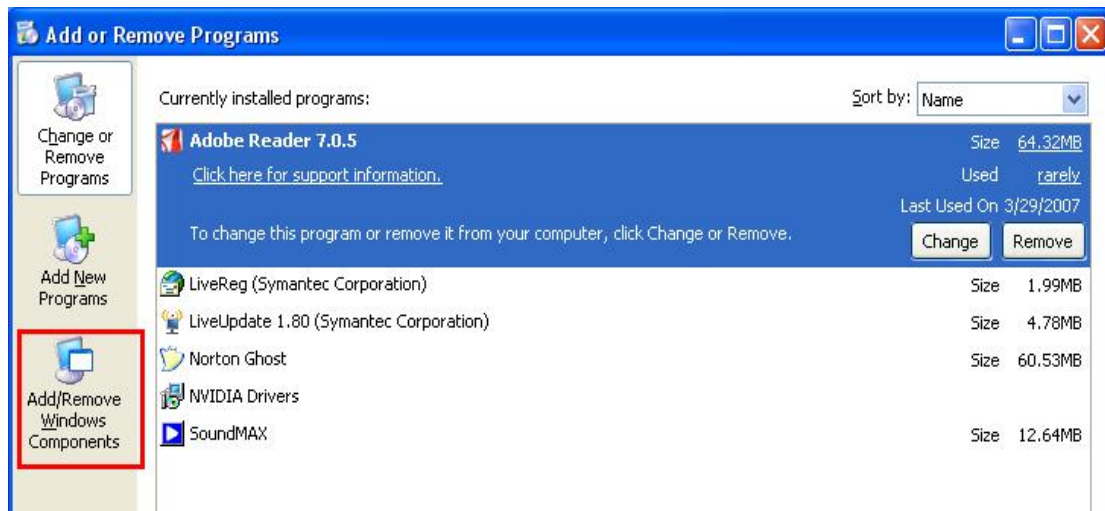
PCs that have enabled UPnP function are informed when a device, this Router, for example, is connected to the local network.



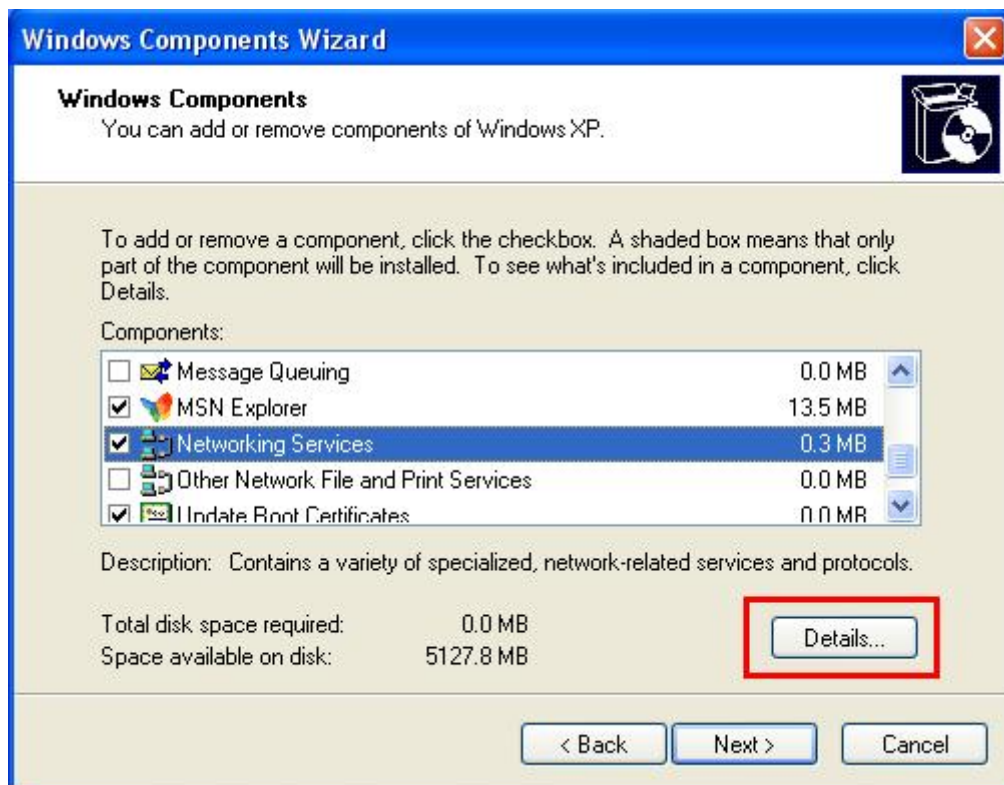
Go to desktop and click **Start** → **Control Panel**.



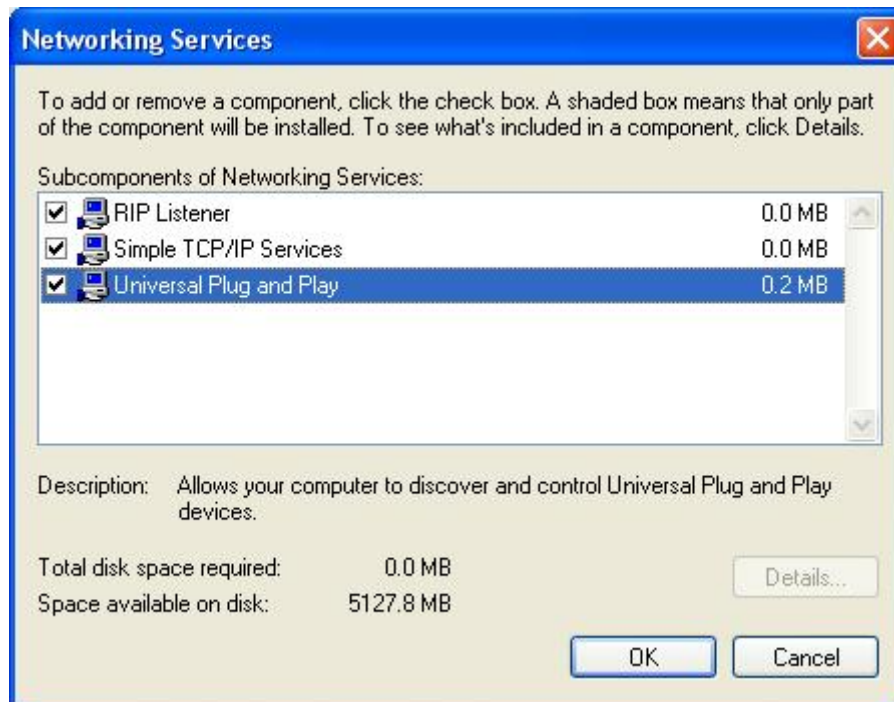
At Control Panel window, double click **Add or Remove Programs**.



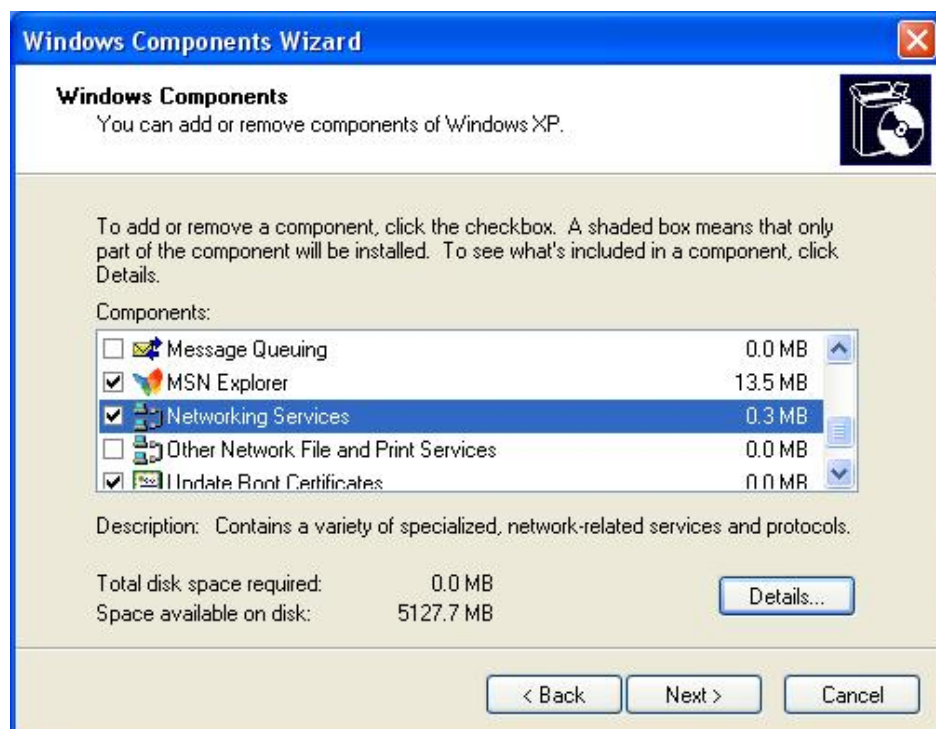
Click **Add/Remove Windows Components**.



Select **Network Services** and then click **Details**.



Tick **Universal Plug and Play** and then click **OK**.



Back to this window, click **Next**. Windows will install the component automatically.

- Depends on the version of your OS, the original Windows CD might be required after this step. If so, please insert your original Windows CD.



Click **Finish**.



Once the UPnP is enabled, the computer will be informed by this icon when a new device is connected to the local network. You can click this icon to get the UPnP-supported device list.



## Chapter 4 Settings

### 4.1 Quick Setup

**Quick Setup** IP Configuration NAT Setup Firewall Setup USB Application System Setup Status & Log Logout

Quick Setup supports 4 WAN Connection Types - ADSL Dialup (PPPoE), ADSL Static IP, Automatic IP and Cable Modem (DHCP). If you do not know your WAN type, consult your ISP. Start quick setup by selecting your WAN Connection Type from the drop-down list.

#### 4.1.1 ADSL Dialup (PPPoE)

If your ISP provides you the ADSL Dialup, please follow the following steps to setup your WAN connection.

Quick Setup	
Select Internet Connection Type	
The router supports four connection types to the Internet. Please choose one of them from the drop-down menu. Consult your ISP if you don't know the connection type.	
WAN Connection Type:	ADSL Dialup (PPPoE) ▼
<div>Next</div>	

**[Page 1]** Select **ADSL Dialup** from the drop-down list.

Quick Setup	
Set Your Account to ISP	
Your Internet connection type is ADSL dialup (PPPoE) and you have been assigned a dynamic IP from your Internet Service Provider (ISP). You can obtain the user name and the password of the ADSL account from your ISP.	
User Name:	<input type="text"/>
Password:	<input type="password"/>
<div>Previous</div>	<div>Next</div>

**[Page 2]** Input the User Name and Password provided by your ISP. Click **Next**.

Quick Setup	
<b>Set Internet Access Policy</b>	
Select your Internet access policy to block specified services at specified time period.	
Blocked Services:	<input type="checkbox"/> WWW <input type="checkbox"/> ICQ <input type="checkbox"/> TELNET <input type="checkbox"/> FTP <input type="checkbox"/> MSN Messenger
Time of Day to Block Services:	<input type="text"/> : <input type="text"/> - <input type="text"/> : <input type="text"/>
<div>Previous</div> <div>Apply</div>	

**[Page 3]** Click the services that you want to block and input the time period that you want the selected services to be blocked. If you don't want to block any services, leave all options empty.

#### 4.1.2 Static IP

If your ISP provides you the static IP, please follow the following steps to setup your WAN connection.

Quick Setup	
<b>Select Internet Connection Type</b>	
The router supports four connection types to the Internet. Please choose one of them from the drop-down menu. Consult your ISP if you don't know the connection type.	
WAN Connection Type:	<div>ADSL Static IP</div>
<div>Next</div>	

**[Page 1]** Select **ADSL Static IP** from the drop-down list.



Quick Setup	
<b>WAN IP Setting</b>	
Your Internet connection type is ADSL static IP and you have been assigned a static IP from your Internet Service Provider (ISP).	
IP Address:	<input type="text"/>
Subnet Mask:	<input type="text"/>
Default Gateway:	<input type="text"/>
<b>WAN DNS Setting</b>	
DNS Server1:	<input type="text"/>
DNS Server2:	<input type="text"/>
<input type="button" value="Previous"/>	<input type="button" value="Next"/>

**[Page 2]** Input the IP Address, Subnet Mask, Default Gateway, and DNS Server provided by your ISP.

Quick Setup	
<b>Set Internet Access Policy</b>	
Select your Internet access policy to block specified services at specified time period.	
Blocked Services:	<input type="checkbox"/> WWW <input type="checkbox"/> ICQ <input type="checkbox"/> TELNET <input type="checkbox"/> FTP <input type="checkbox"/> MSN Messenger
Time of Day to Block Services:	<input type="text"/> : <input type="text"/> - <input type="text"/> : <input type="text"/>
<input type="button" value="Previous"/>	<input type="button" value="Apply"/>

**[Page 3]** Click the services that you want to block and input the time period that you want the selected services to be blocked. If you don't want to block any services, leave all options empty.

### 4.1.3 Automatic IP

If your ISP provides you the automatic IP, please follow the following steps to setup your WAN connection.

Quick Setup	
Select Internet Connection Type	
The router supports four connection types to the Internet. Please choose one of them from the drop-down menu. Consult your ISP if you don't know the connection type.	
WAN Connection Type:	Automatic IP
<div>Next</div>	

[Page 1] Select Automatic IP from the drop-down list.

Quick Setup	
Set Internet Access Policy	
Select your Internet access policy to block specified services at specified time period.	
Blocked Services:	<input type="checkbox"/> WWW <input type="checkbox"/> ICQ <input type="checkbox"/> TELNET <input type="checkbox"/> FTP <input type="checkbox"/> MSN Messenger
Time of Day to Block Services:	<input type="text"/> : <input type="text"/> - <input type="text"/> : <input type="text"/>
<div>Previous</div> <div>Apply</div>	

[Page 2] Click the services that you want to block and input the time period that you want the selected services to be blocked. If you don't want to block any services, leave all options empty.

#### 4.1.4 Cable Modem (DHCP)

If your ISP provides you the Cable Modem (DHCP), please follow the following steps to setup your WAN connection.

Quick Setup	
Select Internet Connection Type	
The router supports four connection types to the Internet. Please choose one of them from the drop-down menu. Consult your ISP if you don't know the connection type.	
WAN Connection Type:	Cable Modem (DHCP)
<div>Next</div>	

[Page 1] Select Cable Modem (DHCP) from the drop-down list.

Quick Setup	
Set Internet Access Policy	
Select your Internet access policy to block specified services at specified time period.	
Blocked Services:	<input type="checkbox"/> WWW <input type="checkbox"/> ICQ <input type="checkbox"/> TELNET <input type="checkbox"/> FTP <input type="checkbox"/> MSN Messenger
Time of Day to Block Services:	<input type="text"/> : <input type="text"/> - <input type="text"/> : <input type="text"/>
<div> <span>Previous</span> <span>Apply</span> </div>	

**[Page 2]** Click the services that you want to block and input the time period that you want the selected services to be blocked. If you don't want to block any services, leave all options empty.

## 4.2 IP Configuration

Quick Setup **IP Configuration** NAT Setup Firewall Setup USB Application System Setup Status & Log Logout

IP Configuration allows you to configure some basic functions including IP Setup, DHCP Server, Routing Table and Miscellaneous.

### 4.2.1 IP Setup

Quick Setup IP Configuration **IP Configuration** NAT Setup Firewall Setup USB Application System Setup Status & Log Logout

## IP Configuration

IP Setup
DHCP Server
Routing Table
Miscellaneous

You can use IP Setup section to configure your WAN connection and LAN IP. WAN connections are divided into four types, each type require different settings. Please check your WAN connection type and follow the corresponding instruction to complete the setting.

### ***ADSL Dialup (PPPoE)***

IP Configuration - IP Setup	
WAN Connection Type:	ADSL Dialup (PPPoE) ▼
<b>WAN Static IP Setting</b>	
If the connection type is ADSL static IP, please specify your static IP, subnet mask, and default gateway here. All of the information is obtained from your ISP.	
IP Address:	<input type="text"/>
Subnet Mask:	<input type="text"/>
Default Gateway:	<input type="text"/>
<b>WAN DNS Setting</b>	
Get DNS Server automatically?	<input checked="" type="radio"/> Yes <input type="radio"/> No
DNS Server1:	<input type="text"/>
DNS Server2:	<input type="text"/>
<b>PPPoE Account</b>	
User Name:	<input type="text"/>
Password:	<input type="password"/>
MTU:	1454 ▼
<b>WAN MAC Address Setting</b>	
WAN MAC Address:	<input type="text"/>
<b>LAN IP Setting</b>	
Please specify the LAN IP address and its subnet mask here.	
IP Address:	<input type="text"/>
Subnet Mask:	<input type="text"/>
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>	

### **WAN Connection Type:**

Select **ADSL Dialup (PPPoE)** from the drop-down list.

### **WAN DNS Setting:**

Select **Yes** to get DNS Server automatically.

### **PPPoE Account:**

Input the user name and password provided by your ISP.

The MTU value can be changed if required.

### **WAN MAC Address Setting:**

This has a default value given by the manufacturer and you are recommended not to change this value.

### **LAN IP Setting:**

There is a default LAN IP given by the manufacturer. You can change this as required. Please note that you should use the new IP address to login to this router.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

### **ADSL Static IP**

IP Configuration - IP Setup	
WAN Connection Type:	ADSL Static IP
<b>WAN Static IP Setting</b>	
If the connection type is ADSL static IP, please specify your static IP, subnet mask, and default gateway here. All of the information is obtained from your ISP.	
IP Address:	
Subnet Mask:	
Default Gateway:	
<b>WAN DNS Setting</b>	
Get DNS Server automatically?	<input type="radio"/> Yes <input checked="" type="radio"/> No
DNS Server1:	
DNS Server2:	
<b>PPPoE Account</b>	
User Name:	
Password:	
MTU:	1454
<b>WAN MAC Address Setting</b>	
WAN MAC Address:	
<b>LAN IP Setting</b>	
Please specify the LAN IP address and its subnet mask here.	
IP Address:	192.168.1.100
Subnet Mask:	255.255.255.0
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>	

### **WAN Connection Type:**

Select **ADSL Dialup (PPPoE)** from the drop-down list.

### **WAN IP Setting:**

Input the IP Address, Subnet Mask and Default Gateway provided to you by your ISP.

### **WAN DNS Setting:**

Select **No** to set the DNS manually and input the DNS Server IP. If you don't know, please check with your ISP.

The MTU value can be changed if required.

### **WAN MAC Address Setting:**

This has a default value given by the manufacturer and you are recommended not to change this value.

### **LAN IP Setting:**

There is a default LAN IP given by the manufacturer. You can change this as required. Please note that you should use the new IP address to login to this router.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

### **Automatic IP**

IP Configuration - IP Setup	
WAN Connection Type:	Automatic IP
<b>WAN Static IP Setting</b>	
If the connection type is ADSL static IP, please specify your static IP, subnet mask, and default gateway here. All of the information is obtained from your ISP.	
IP Address:	
Subnet Mask:	
Default Gateway:	
<b>WAN DNS Setting</b>	
Get DNS Server automatically?	<input checked="" type="radio"/> Yes <input type="radio"/> No
DNS Server1:	
DNS Server2:	
<b>PPPoE Account</b>	
User Name:	
Password:	
MTU:	1454
<b>WAN MAC Address Setting</b>	
WAN MAC Address:	
<b>LAN IP Setting</b>	
Please specify the LAN IP address and its subnet mask here.	
IP Address:	192.168.1.100
Subnet Mask:	255.255.255.0
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>	

### **WAN Connection Type:**

Select **Automatic IP** from the drop-down list.

### **WAN DNS Setting:**

Select **Yes** to get DNS Server automatically.

### **WAN MAC Address Setting:**

This has a default value given by the manufacturer and you are recommended not to change this value.

### **LAN IP Setting:**

There is a default LAN IP given by the manufacturer. You can change this as required. Please note that you should use the new IP address to login to this router.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

## **Cable Modem (DHCP)**

IP Configuration - IP Setup	
WAN Connection Type:	Cable Modem (DHCP) ▼
<b>WAN Static IP Setting</b>	
If the connection type is ADSL static IP, please specify your static IP, subnet mask, and default gateway here. All of the information is obtained from your ISP.	
IP Address:	
Subnet Mask:	
Default Gateway:	
<b>WAN DNS Setting</b>	
Get DNS Server automatically?	<input checked="" type="radio"/> Yes <input type="radio"/> No
DNS Server1:	
DNS Server2:	
<b>PPPoE Account</b>	
User Name:	
Password:	
MTU:	1454 ▼
<b>WAN MAC Address Setting</b>	
WAN MAC Address:	
<b>LAN IP Setting</b>	
Please specify the LAN IP address and its subnet mask here.	
IP Address:	192.168.1.100
Subnet Mask:	255.255.255.0
<div>Cancel</div> <div>Apply</div>	

### **WAN Connection Type:**

Select **Automatic IP** from the drop-down list.

### **WAN DNS Setting:**

Select **Yes** to get DNS Server automatically.

### **WAN MAC Address Setting:**

This has a default value given by the manufacturer and you are recommended not to change this value.

### **LAN IP Setting:**

There is a default LAN IP given by the manufacturer. You can change this as required. Please note that you should use the new IP address to login to this router.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

## **4.2.2 DHCP Server**



## IP Configuration

IP Setup

DHCP Server

Routing Table

Miscellaneous

DHCP Server supports up to 253 IP addresses for you local network. Follow the instructions to configure DHCP Server.

### Enable DHCP Server:

Select **Yes** to enable or **No** to disable DHCP Server.

### Domain Name:

Domain Name is the name which you had registered from NIC (Network Information Center). Ignore this part if managers don't apply for a domain name.

### IP Pool Starting/Ending Address:

You can use this to set the IP range that the DHCP server can offer.

### WINS (Windows Internet Naming Service) Server:

Input a WINS server IP if there is a WINS Server in the local network.

### Apply/Cancel:

Click **Apply** to save the settings or click **Cancel** to aboard.

IP Configuration - DHCP Server	
You can set up the router as a DHCP Server which automatically assigns IP addresses to DHCP clients in your local network.	
Enable DHCP Server?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Domain Name:	<input type="text"/>
IP Pool Starting Address:	<input type="text" value="192.168.0.1"/>
IP Pool Ending Address:	<input type="text" value="192.168.0.254"/>
WINS Server Setting	
Primary WINS Server :	<input type="text"/>
Secondary WINS Server :	<input type="text"/>
<div> <input type="button" value="Cancel"/> <input type="button" value="Apply"/> </div>	

## 4.2.3 Routing Table



## IP Configuration

IP Setup DHCP Server **Routing Table** Miscellaneous

Routing Table page allows you to set routing rules to this router. This includes static routing and dynamic routing.

**IP Configuration - Routing Table**

**Static Route**

This function allows you to add more routing rules into the router. It is useful if you have more than one subnet in your LAN.

**Static Routing Table**
Add Del Help

Network / Host IP	Netmask	Gateway

**Dynamic Route**

RIP Setup: ☐ Disable ☐ Rip1 ☐ Rip2

Cancel Apply

### Static Route:

Input the IP address of a destination network or a host of the routing rule. It could be a host address like **192.168.123.100** or a network address, such as **192.168.0.0**. Click **Add** to add the rule to the routing table or select a rule from the table and then click **Del** to delete the rule.

### Dynamic Route:

If you don't want to set any dynamic routing rule, select **Disable**. The default value is Rip2 and the router will build a routing table and get a path to the destination automatically.

## 4.2.4 Miscellaneous

## IP Configuration

IP Setup DHCP Server Routing Table **Miscellaneous**

Miscellaneous includes web server port setting, access control from WAN and DDNS setting. You can enable or disable some services when clients access from WAN.

IP Configuration - Miscellaneous	
Web Server Port	<input type="text" value="80"/>
Enable Ping from WAN	<input type="radio"/> Yes <input type="radio"/> No
Enable Web Access from WAN	<input type="radio"/> Yes <input type="radio"/> No
Enable Print Server Access from WAN	<input type="radio"/> Yes <input type="radio"/> No
Enable FTP access from WAN	<input type="radio"/> Yes <input type="radio"/> No
Enable Webcam Access from WAN	<input type="radio"/> Yes <input type="radio"/> No
DDNS Setting	
If the WAN IP of the router is dynamically obtained from your ISP, you can use this feature to dynamically register the WAN IP of the router to your DDNS (Dynamic DNS) server, so the DNS-to-IP mapping will always get the correct IP.	
Enable the DDNS Client?	<input type="radio"/> Yes <input type="radio"/> No
Server:	<input type="text" value="DynDNS.org"/> <a href="#">Free Trial</a>
User Name or E-mail Address:	<input type="text"/>
Password or DDNS Key:	<input type="text"/>
Host Name:	<input type="text"/>
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>	

### **Enable the DDNS Client:**

Select **Yes** to enable or **No** to disable the DDNS client.

### **DDNS Server:**

Select a DDNS server from the drop-down list or click **Free Trial** to link up a free trial address.

### **User Name or E-mail Address:**

User name or e-mail address is used as an identity to login to some DDNS services.

### **Password or DDNS Key:**

Password or DDNS key is used to login to some DDNS services.

### **Host Name:**

Input the host name you have registered to Dynamic-DNS website.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

## 4.3 NAT Setup

NAT Setup contains three functional items including Port Trigger, Virtual Server and Virtual DMZ.

### 4.3.1 Port Trigger

## NAT Server

Port Trigger Virtual Server Virtual DMZ

Application-triggered port forwarding opens a port only when a program needs to use it. You can set a trigger port to open an incoming port. When trigger ports are used, the system opens the specified incoming ports.

To setup port trigger, follow the instructions below.

**NAT Setup - Port Trigger**

Application-triggered port forwarding opens a port only when a program needs to use it.

Enable Port Trigger? ☒ Yes ☐ No

**Port Trigger Table**
Add Del

Popular Applications	User Defined		
Trigger Ports	Incoming Ports	Protocol	Description
		BOTH	

Cancel Apply

#### **Enable Port Trigger:**

Select **Yes** to enable or **No** to disable port trigger.

#### **Popular Applications:**

The drop-down list has listed some popular applications, you can get the port number of an application by selecting from the drop-down list. Or you can also select **User Defined** from the list

and input the port number by yourself.

**Trigger Ports:**

Input the port number that will trigger the action. If this port was active by a program, the system will open the corresponding incoming port.

**Incoming Ports:**

Input the port number that will be open if the trigger port is active.

**Protocol:**

Select from the list whether this rule should be applied to TCP or UDP or both.

**Description:**

You can input some description of this rule.

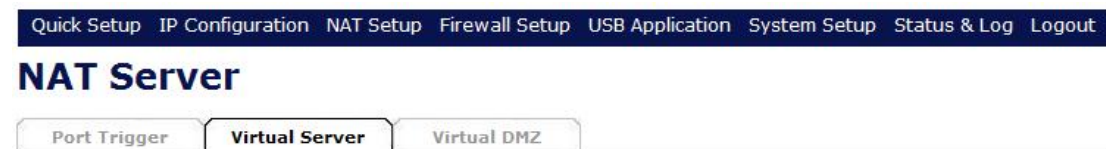
**Add/Del:**

After fill up all your requirement of a rule, click **Add** to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click **Del**. Then the high-lighted rule will be removed from the list.

**Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

### 4.3.2 Virtual Server



The hosts behind a firewall will be invisible from the outside. If you would like to setup a server such as web server or mail server behind the firewall, you will need to setup a virtual server. You can follow the instructions to setup a virtual server.

**NAT Setup - Virtual Server**

This router has built-in firewall function, which makes all hosts behind the router invisible to the outside Internet. If you would like to set up servers, such as web server or mail server, you can setup the following feature – Virtual Server.

Enable Virutal Server?

☐ Yes
☐ No

Virtual Server List

Add

Del

Well-Known Applications:

User Defined

Local IP	Local Port	Server Port	Protocol	Description
			BOTH	

Cancel

Apply

### Enable Virtual Server:

Select **Yes** to enable or **No** to disable virtual server.

### Well-Know Applications:

The drop-down list has listed some well-know applications, you can get the port number of an application by selecting from the drop-down list. Or you can also select **User Defined** from the list and input the local port number and server port number by yourself.

### Local IP:

Input the local server IP. For example, the IP address of your web server on you network.

### Local Port:

Input the port number. For example, port 80 for your web server.

### Server Port:

Input the port number that WAN IP takes for this rule. It means all the connections from the Internet to your WAN IP on this port will be redirected to the local IP on the local port you have set.

### Protocol:

Select from the list whether this rule should be applied to TCP or UDP or both.

### Description:

You can input some description of this service.

### Add/Del:

After fill up all your requirement of a rule, click **Add** to add the rule to

the rule table. If you want to delete a rule from the table, select the rule and click **Del**. Then the high-lighted rule will be removed from the list.

**Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

### 4.3.3 Virtual DMZ



You can redirect every connection from the Internet to a computer on your network by setting up a virtual DMZ. Every connection your WAN IP form the Internet will be redirected to the specified IP address on your network. However, this could also increase the security risk of your network. Follow the instructions to setup a virtual DMZ.

**IP Address of the DMZ host:**

Input the host IP address where you want all the connections to your WAN IP to be redirected to.

**Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

## 4.4 Firewall Setup



There are three ways to block connections. Connections can be blocked by their IP address, MAC address or URL.



## 4.4.1 IP Filter

Quick Setup IP Configuration NAT Setup Firewall Setup USB Application System Setup Status & Log Logout

### Firewall Setup

IP Filter MAC Filter URL Filter

IP Filter blocks connections according to their IP addresses and ports. You can also set start time and end time if you only want to apply the filter rules during a specific period in a day.

**Firewall Setup - IP Filter**

Properly configure the firewall will help you to block the access from the local network to Internet or from Internet to the local network.

Enable Firewall?	<input type="radio"/> Yes <input type="radio"/> No
Enable Firewall Log?	<input type="radio"/> Yes <input type="radio"/> No

**IP Filter Setup**

Filter Table	Add	Del	Help
Priority	Higher	Lower	

Well-Known Applications:

User Defined

Source IP	Port Range	Destination IP	Port Range	Protocol	Start Time	End Time	Type
				BOTH			ACCEPT

Cancel

Apply

#### **Enable Firewall:**

Select **Yes** to enable or **No** to disable firewall.

#### **Enable Firewall Log:**

Select **Yes** to enable or **No** to disable firewall log.

#### **Source IP and Port Range:**

Input the source IP address and port range for the filtering rule.

#### **Destination IP and Port Range:**

Input the destination IP address and port range for the filtering rule.

#### **Protocol:**

Select from the drop-down list whether certain filter rule should

apply to TCP or UDP or both.

**Start Time/End Time:**

Set a period of time to drop or accept the connection.

**Type:**

Select from the drop-down list for dropping or accepting the connection.

**Add/Del:**

After fill up all your requirement of a rule, click **Add** to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click **Del**. Then the high-lighted rule will be removed from the list.

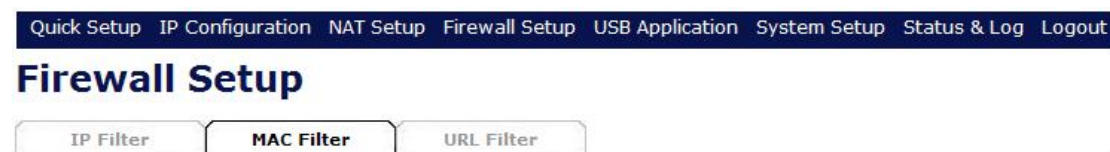
**Priority:**

A connection is to be accepted or to be dropped is according to the first matching rule from the top of the rule table. You can change the priority of a rule by select the rule and click **Higher** or **Lower**.

**Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

## 4.4.2 MAC Filter



MAC filter drops or accepts a connection according to its MAC address.



## Firewall Setup - MAC Address Filter

The router can accept/block packets that contains the MAC (Media Access Control) addresses specified in the filter table.

Enable MAC Filter?

☐ Yes
☐ No

Mac Address specified will be:

DROP

### MAC Address Filter Setup

Filter Table

Add

Del

MAC Address	Start Time	End Time
	:	:

Cancel

Apply

#### Enable MAC Filter:

Select **Yes** to enable or **No** to disable MAC filter.

#### MAC Address specified will be:

Select **DROP** or **ACCEPT** from the list to mean all the connections to the MAC addresses on the list should be dropped or accepted.

#### MAC Address:

Input the MAC address that you want to apply to this rule.

#### Start Time/End Time:

Set a period of time to drop or accept the connection.

#### Add/Del:

After fill up all your requirement of a rule, click **Add** to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click **Del**. Then the high-lighted rule will be removed from the list.

#### Apply/Cancel:

Click **Apply** to save the settings or click **Cancel** to aboard.

### 4.4.3 URL Filter

[Quick Setup](#)
[IP Configuration](#)
[NAT Setup](#)
[Firewall Setup](#)
[USB Application](#)
[System Setup](#)
[Status & Log](#)
[Logout](#)

## Firewall Setup

IP Filter

MAC Filter

URL Filter

URL filter blocks a connection according to its URL.

**Firewall Setup - URL Filter**

The router allows you to restrict Internet access based on full URL or URL keywords.

Enable URL Filter?

☐ Yes
☐ No

URL Keyword List

Add

Del

URL Keyword	Start Time	End Time
<input type="text"/>	<input type="text"/> : <input type="text"/>	<input type="text"/> : <input type="text"/>
<div></div>		

Cancel

Apply

### Enable URL Filter:

Select **Yes** to enable or **No** to disable URL filter.

### URL Keyword:

Input a full URL or a keyword of an URL. For example, input “www.abc.com.tw” will only block the URL perfectly matches this URL while input “abc” will block all the connections that contain “abc” in its URL.

### Start Time/End Time:

Set a period of time to drop or accept the connection.

### Add/Del:

After fill up all your requirement of a rule, click **Add** to add the rule to the rule table. If you want to delete a rule from the table, select the rule and click **Del**. Then the high-lighted rule will be removed from the list.

### Apply/Cancel:

Click **Apply** to save the settings or click **Cancel** to aboard.

## 4.5 USB Application

Quick Setup IP Configuration NAT Setup Firewall Setup **USB Application** System Setup Status & Log Logout

This router provides three USB applications, FTP server, Web camera and printer server.

### 4.5.1 FTP Server

## USB Application

FTP Server

Web Camera

Printer Server

The FTP server function allows you to share files on the network. This product supports a file format of FAT12/16/32.

Please follow the steps below to configure FTP server.

### USB Application - FTP Server

The router supports FTP file server, if you plug in a USB disk or a USB flash disk.

Enable FTP Server?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Allow Anonymous User to Login?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="button" value="Login"/>
Allow Superuser to Login?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="button" value="Login"/>
Maximum Users Allowed to Log in:	<input type="text" value="8"/>
FTP Port:	<input type="text" value="21"/>

#### User Account List

Please create or delete user accounts here.

User Name	Password	Max. Login	Rights
			Read/Write/Erase <input type="button" value="v"/>
Tom	12345	5	Read/Write/Erase
Boss	abcd	8	Super User

### Enable FTP Server:

Select **Yes** to enable or **No** to disable FTP Server.

### Allow Anonymous User to Login:

Select **Yes** to allow users use anonymous to login or select **No** to forbid users use anonymous to login.

### Allow Super User to Login:

Select **Yes** to enable or **No** to disable user log in to FTP as super user.

### **Maximum Users Allowed to Login:**

Input the maximum amount that the system can allow users to login at the same time.

### **FTP Port:**

The default FTP Port is 21, you can change it if necessary.

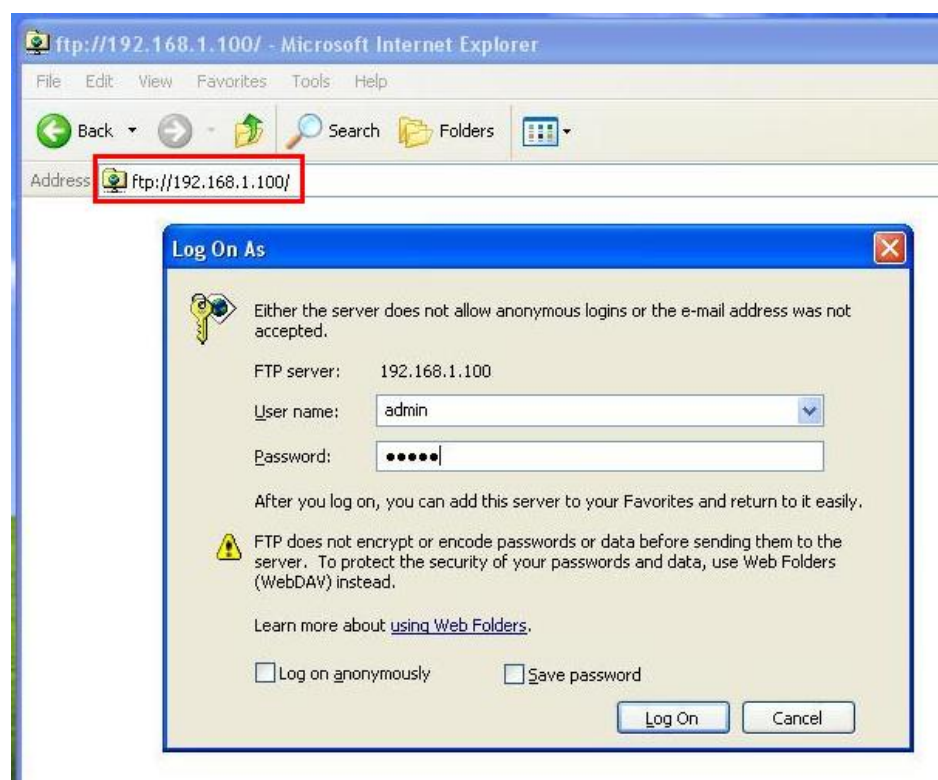
### **Add/Del:**

To add a user account, input user name, password, max login and file access right of the new user and then click **Add**. To delete a user account, select the user from the account list and then click **Del**.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

## **How to operate on Windows:**



Open Internet browser and input the address of the router. For example, we use <ftp://192.168.1.100> because the LAN IP address of our router is 192.168.1.100.

If the **Allow Anonymous User to Login** item is set to **No**, then a dialog will appear to ask you for user name and password. Enter the user name and password then click Log On. If the user name and password is valid, you can see the data as follows.



## 4.5.2 Print Server

Quick Setup IP Configuration NAT Setup Firewall Setup USB Application System Setup Status & Log Logout

### USB Application

FTP Server Web Camera **Printer Server**

The Print server function allows you to share printers on the network. Digitus DN-11009 support LPR printing protocol. Please follow the steps below to configure print server.

**USB Application - Print Server**

You can set the router as a USB print server.

Enable Printer Server?	<input type="radio"/> Yes <input type="radio"/> No
------------------------	--

**USB Printer1**

USB Printer1 Name:	<input type="text"/>
USB Printer1 Model:	<input type="text"/>

**USB Printer2**

USB Printer2 Name:	<input type="text"/>
USB Printer2 Model:	<input type="text"/>

### **Enable Print Server:**

Select **Yes** to enable or **No** to disable print Server.

### **Printer1 Name:**

This is the printer name of the first printer. There will be a default printer name. You can change it if you want. Remember this name will be the one you should use when adding printer on Windows.

### **Printer1 Model:**

The model of the first printer.

### **Printer2 Name:**

This is the printer name of the second printer. There will be a default printer name. You can change it if you want. Remember this name will be the one you should use when adding printer on Windows.

### **Printer2 Model:**

The model of the second printer.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard.

### **Add a printer on Windows:**

Please follow the steps listed below to add a printer on Windows.



Go to “**Start**” select Printers and Faxes.

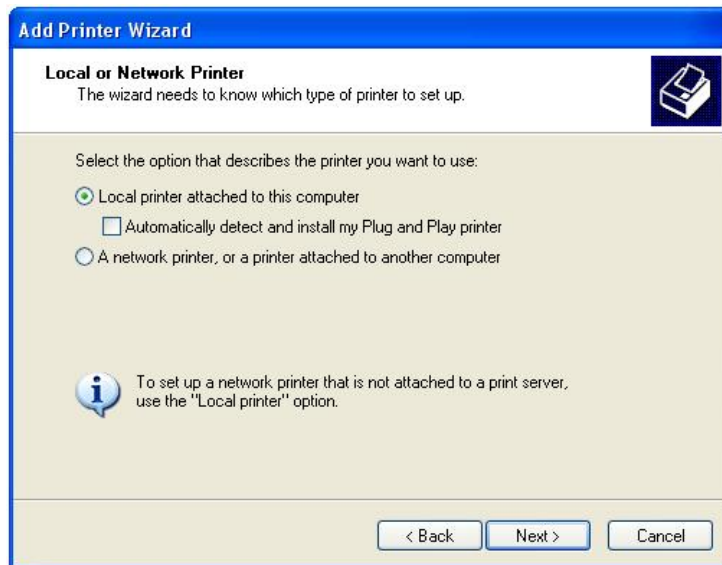




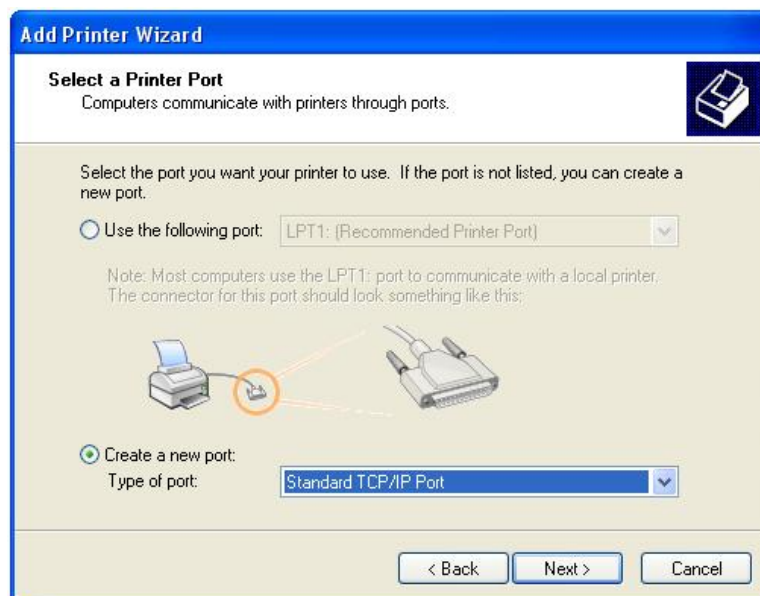
Click **Add a printer**.



Click **Next**.



Select **Local printer attached to this computer** then click **next**.

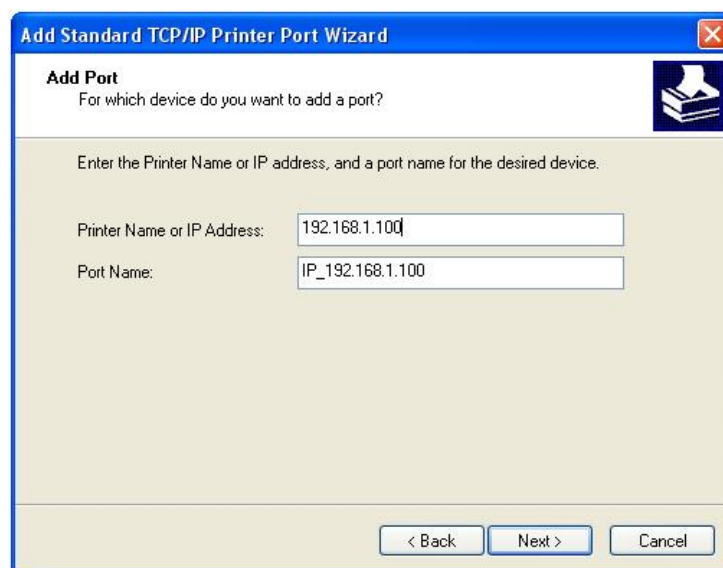


Select **Create a new port** and set type of port to **Standard TCP/IP Port**. Click **next**.

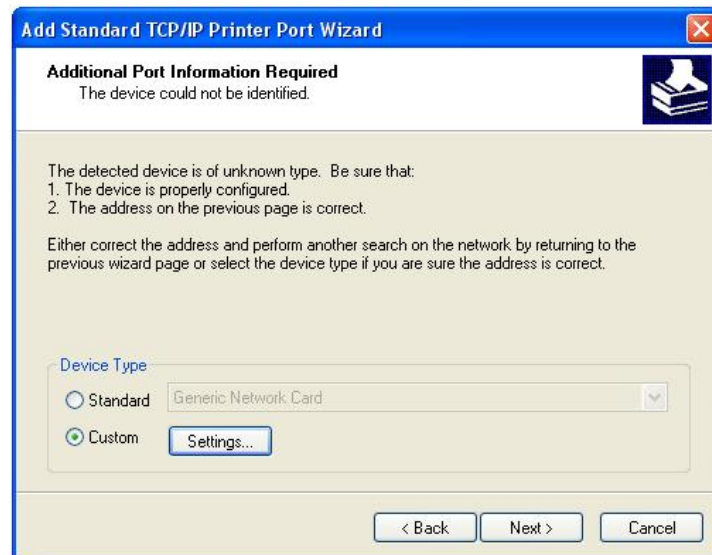




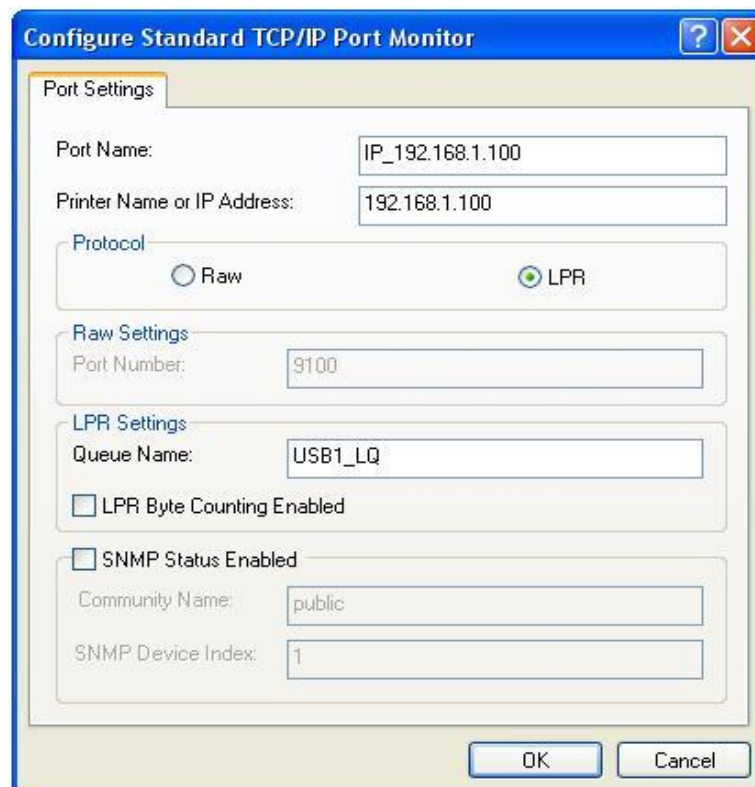
A wizard of adding a new standard TCP/IP port will appear. Click **Next**.



Give a name to this new port. Then click **Next**.



Select device type to **Custom**. Then click **Settings**.



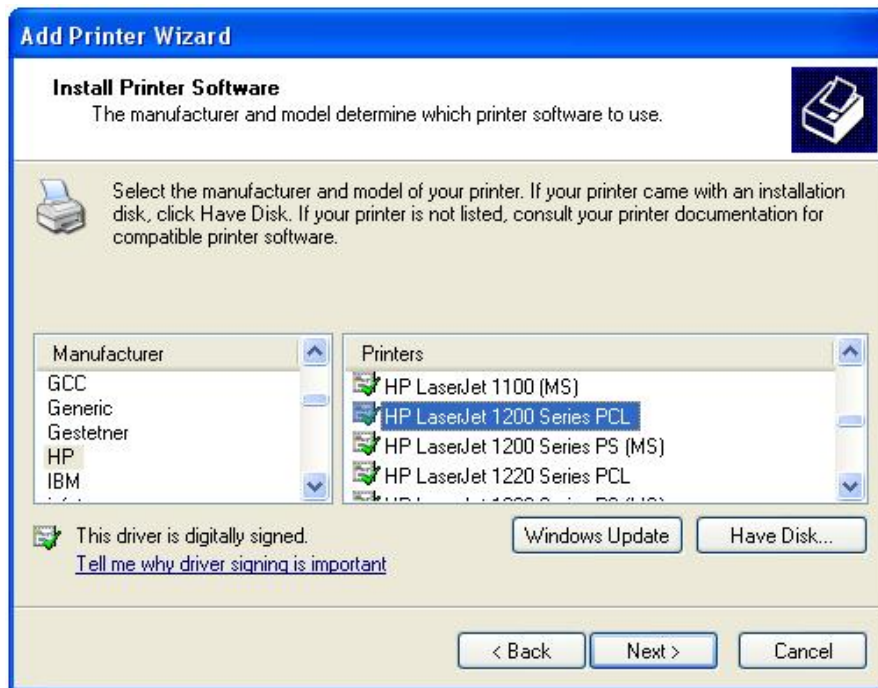
Set protocol to **LPR** and set queue name as the printer name you set on router web site. Here we use USSB1\_LQ for example. Click **OK**.



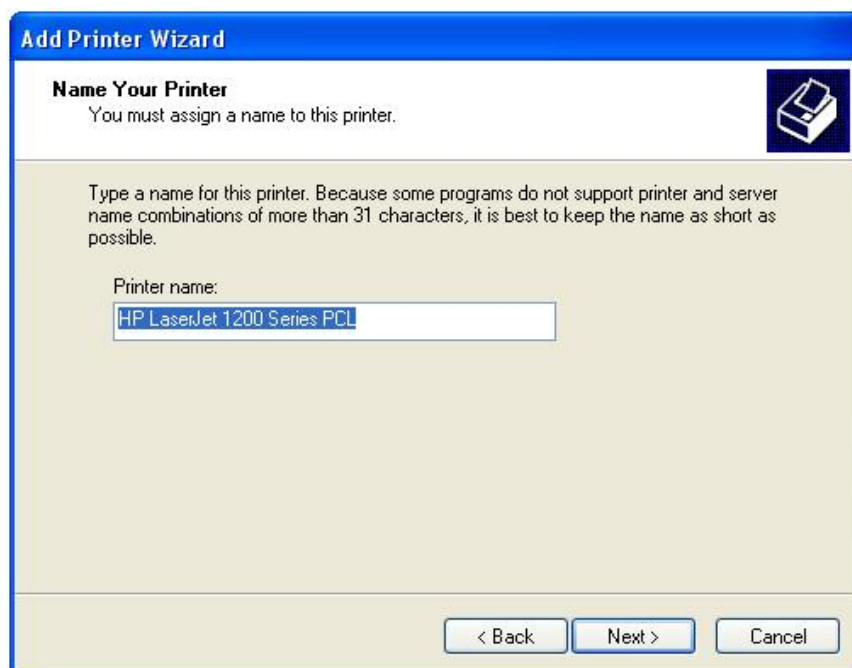
Once the device type is configured, the wizard will back to this page. Click **Next**.



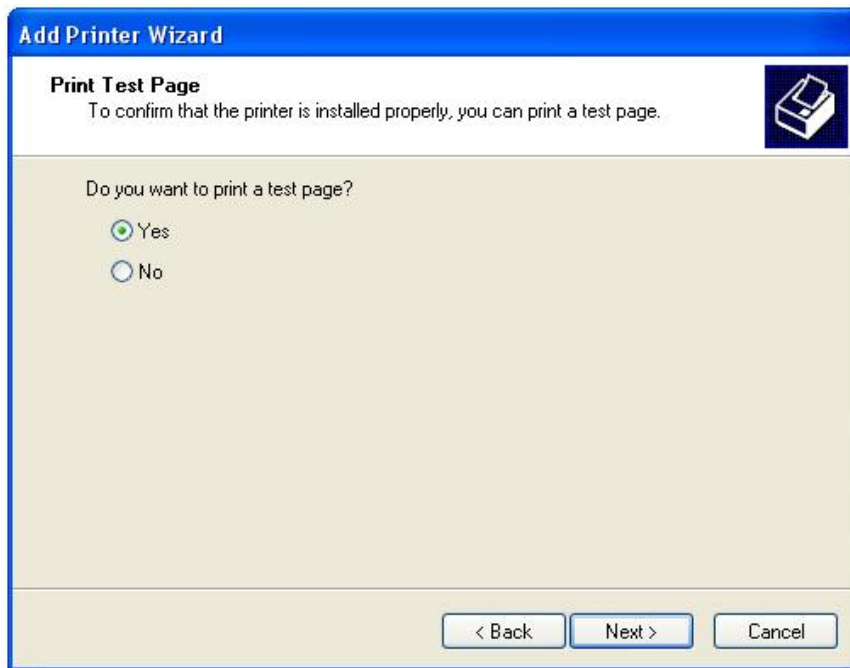
Click **finish** to complete the add printer port wizard.



Select printer driver. Here we use HP LaserJet 1200 Series PCL for example. Click **Next**.



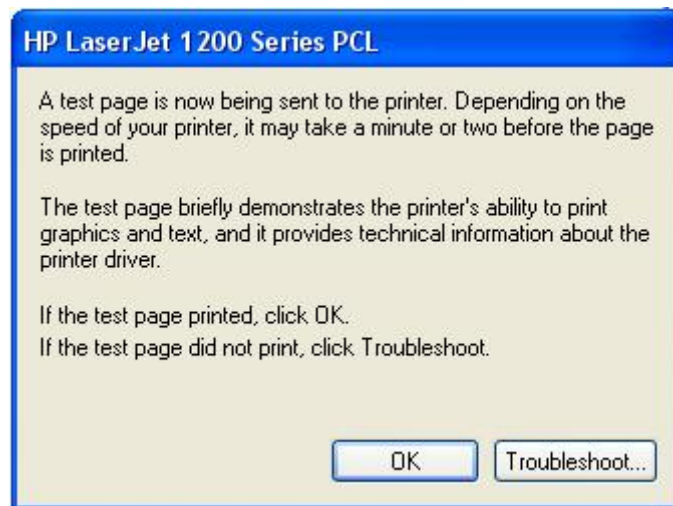
Give this printer a name. This name is used for Windows display. There will be a default printer name, you can change if necessary.



Select whether you want to print a test page or not. Here we select **Yes** as an example.



Click **finish** to complete the add printer wizard.



If the test page is printed, click **Ok**. Otherwise, click **Troubleshoot**.



There will be a new printer added to your printer list.

## 4.6 System Setup



### 4.6.1 User Setting



You can set the name and password for the administrator of the



router.

System Setup - Administrator Setting	
You can set the user name and password for the administrator of the router.	
<b>Note:</b> Both the user name and the password are not case sensitive.	
User Name:	<input type="text" value="admin"/>
New Password:	<input type="password"/>
Retype New Password:	<input type="password"/>
<input type="button" value="Cancel"/>	<input type="button" value="Apply"/>

Input the new user name and password that is to be used as the administrator of the router. Retype the password and click **Apply** to save the settings or **Cancel** to aboard.

\*Note that you should use the new user name and password to login to the router web site once applied.

## 4.6.2 Time Setup

Quick Setup IP Configuration NAT Setup Firewall Setup USB Application System Setup Status & Log Logout						
<b>System Setup</b>						
User Setting	<b>Time Setup</b>	Firmware Upgrade	Setting Backup	Restore Default	Wake On LAN	

You can set the router clock to your local time and daylight saving time. You can get current time from NTP (Network Time Protocol) server or from your local computer. Please follow the steps below to set your router time.



System Setup - Router Time Setup	
You can set the system time of the router.	
Current Router Time:	Thu Jan 01 07:24:34 1970
Time Setup	
<input checked="" type="radio"/> Using NTP to Get Time	
NTP Server:	time.nist.gov
Time zone:	(GMT+08:00) Beijing, Hong Kong, Singapore, Taipei
Daylight saving time?	Disable
<input type="radio"/> User Setup	<div> <div>Year</div> <div>Month</div> <div>Day</div> </div> <div> <div>Hour</div> <div>Minute</div> <div>Second</div> </div>
<input type="button" value="Get Time From Local Computer"/>	
<div> <input type="button" value="Cancel"/> <input type="button" value="Apply"/> </div>	

### **Current Router Time:**

This field displays your current router time.

### **Using NTP to Get Time:**

Select this if you want to get time from NTP server.

### **NTP Server:**

Select a NTP server from the drop-down list.

### **Time Zone:**

Choose your local time zone from the drop-down list.

### **Daylight Saving Time:**

Select an option to enable or disable daylight saving time.

### **User Setup:**

Select this if you prefer setup time manually. Input the time for each field or you can also get time from your local computer.

### **Get Time From Local Computer:**

Click to get time from your local computer. The time get from your computer will be displayed at the user setup field.

### **Apply/Cancel:**

Click **Apply** to save the settings or click **Cancel** to aboard. Once applied, the current router time field will display your new router time.

## **4.6.3 Firmware Upgrade**

## System Setup

User Setting Time Setup **Firmware Upgrade** Setting Backup Restore Default Wake On LAN

This page displays the current firmware information of your router. You can always keep your router updated to the latest version from this page as well. Please follow the steps below to upgrade router firmware.

System Setup - Firmware Upgrade	
From this page you can easily to install new firmware into the router.	
Product ID:	<input type="text"/>
Firmware Version:	<input type="text"/>
New Firmware File:	<input type="text"/> <a href="#">Browse...</a>
<a href="#">Upload</a>	

### Product ID:

This field displays product ID of your router.

### Firmware Version:

This field displays the firmware version that your router is using currently.

### New Firmware File:

Click [Browse](#) to get the new firmware that you would like to upload.

### Upload:

Click [Upload](#) to upgrade the firmware.

## 4.6.4 Setting Backup

## System Setup

User Setting Time Setup Firmware Upgrade **Setting Backup** Restore Default Wake On LAN

You can save your current configuration to a file, and you can also load your settings from a file that you have saved. Please follow the steps below to save or load your settings.

## System Setup - Setting Management

You can save current settings of this router to a file, or load settings from a file.

### Save Settings As a File

Please click [HERE](#) to save current settings of this router into a file.

### Load Settings From a File

Please specify the path and the name of the downloaded file in the "New Setting File" as below. Then click the "Upload" button to restore settings into the router. It will take a while and then the router will reboot.

New Setting File:

Click [Here](#) to save your current settings into a file for backing up. If you want to get your original settings back, click [Browse](#) to get your saved settings and click [Upload](#) to apply. The system will reboot automatically, all the settings will be restored to the original value after reboot.

### 4.6.5 Restore Default

[Quick Setup](#)
[IP Configuration](#)
[NAT Setup](#)
[Firewall Setup](#)
[USB Application](#)
[System Setup](#)
[Status & Log](#)
[Logout](#)

## System Setup

User Setting

Time Setup

Firmware Upgrade

Setting Backup

Restore Default

Wake On LAN

You may restore the router to factory default settings from this page. To restore default settings, simply click the [Restore](#) button. The system will reboot automatically. Settings will be reset to factory default values after reboot.

## System Setup - Restore Default Settings

Click the [Restore](#) button to restore the factory default settings. Then, wait for the router to reboot.

### 4.6.6 Wake on LAN

## System Setup

User Setting Time Setup Firmware Upgrade Setting Backup Restore Default Wake On LAN

For computers connected on this router's LAN port, the Wake on LAN function allows you to turn on a computer through its MAC address. The computer must support Wake on LAN. Please check the BIOS setup in your computer.

### System Setup - Wake On LAN

MAC Address:

00

:

00

:

00

:

00

:

00

:

00

Cancel

Wake Up

To wake up a computer, please enter the MAC address of the computer, and then click **Wake Up** to turn on the computer or click **Cancel** to aboard and clear the setting.

## 4.7 Status & Log

Status & Log provides many useful information of the system. Including the current WAN and LAN status of the system, the DHCP offered by this DHCP server and the login record of the system.

### 4.7.1 Status

## Status & Log

Status DHCP Leases System Log

Status page shows some important information and status of the interfaces of this router.

Status & Log - Status	
This page shows some important information and status about the router. To update the display, click <b>Refresh</b> button.	
System Up Time:	001 days 01:57:52
WAN Interface	
Connection Type:	ADSL Static IP
IP Address:	61.218.78.46
Subnet Mask:	255.255.255.0
Default Gateway:	61.218.78.33
DNS Servers:	168.95.1.1
MAC Address:	00:11:E5:5A:29:31
Connection Status:	Connected.
LAN Interface	
IP Address:	192.168.1.100
Subnet Mask:	255.255.255.0
MAC Address:	00:11:E5:5A:29:30
USB Printer	
Printer1 Name:	
Printer1 Model:	
Printer1 Status:	Printer Off-line
Printer2 Name:	
Printer2 Model:	
Printer2 Status:	Printer Off-line
<input type="button" value="Refresh"/>	

### **System Up Time:**

This field shows the lasting time from the last time this system up to current.

### **WAN Interface**

#### **Connection Type:**

This field shows the WAN connection type this system is using.

#### **IP Address:**

This field shows the IP address of the system WAN port.

**Subnet Mask:**

This field shows the subnet mask of the system WAN port.

**Default Gateway:**

This field shows the gateway of the system WAN port.

**DNS Servers:**

This field shows the DNS server IP address of the system WAN port.

**MAC Address:**

This field shows the MAC address of the system WAN port.

**Connection Status:**

This field shows the current WAN connection status. The value would be **Connected** or **Not connected**.

**LAN Interface****IP Address:**

This field shows the IP address of the system LAN port.

**Subnet Mask:**

This field shows the subnet mask of the system LAN port.

**MAC Address:**

This field shows the MAC address of the system LAN port.

**USB Printer****Printer Name:**

This field shows the printer name of the printer connected to system USB port.

**Printer Model:**

This field shows the printer name of the printer connected to system USB port.

**Printer Status:**

This field shows the printer status of the printer connected to system USB port.

**Refresh:**

Click **Refresh** to get the latest information of the system.

**4.7.2 DHCP Leases**

When the system DHCP server function is on, this system will offer

IP addresses to other network devices. This page shows the IP address offered and to which MAC address does this IP address offered.

Status & Log - DHCP Leases		
This page lists the computers that obtain their IP addresses from the router.		
DHCP Lease Table		
MAC Address	IP Address	Computer Name
00:04:e2:f6:2a:67	192.168.0.3	test
00:17:31:06:d8:9a	192.168.0.23	Sales_NB

### Refresh:

Click **Refresh** to get the latest information of the DHCP leases

### 4.7.3 System Log

Quick Setup IP Configuration NAT Setup Firewall Setup USB Application System Setup Status & Log Logout

## Status & Log

Status

DHCP Leases

**System Log**

The system records some of its activities automatically. An alerting email could be send to inform users when the system log is full. The logged information can be saved to computer manually.



## Status & Log - System Log

You can view the log of router activities. To update the display of the log, click **Refresh** button.

Time	Type of Services	Description
03/27 17:35:43	WEB	192.168.0.115 User login to web!
03/27 17:18:55	WEB	192.168.0.115 User login to web!
03/27 16:29:07	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
03/27 11:36:05	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
03/27 10:44:18	WEB	192.168.0.110 User login to web!
03/27 07:11:05	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
03/27 04:24:06	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
03/27 03:56:36	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
03/27 03:50:36	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
03/27 01:54:33	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
03/26 23:25:05	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff
01/01 12:12:41	FireWall	Packet rejected by MAC rule, MAC addr is ff:ff:4d:ff:09:ff

## Email Alert

Send an alert when logs are full:

Disable

Email Address:

Outgoing Mail Server:

Outgoing Mail Server (SMTP server) requires authentication:

☐ Yes
 ☒ No

User name:

Password:

Save

Mail Now

Refresh

### System Log:

The log records the time, type of services and description of router activities.

### Send an alert when logs are full:

Select an option to enable or disable alerting email. If enabled, the system will send an email to the designated email address when logs are full.

### Email Address:

Input the email address that you want the alerting email to be sent to.

### Outgoing Mail Server:

Input the outgoing mail server address.

### Outgoing Mail Server (SMTP server) requires authentication:

Select whether your outgoing mail server requires authentication or not.

### User Name:

Input the user name of your mail server authentication.

### Password:

Input the password of your mail server authentication.

**Save:**

Click **Save** to save the logs to your computer.

**Mail Now:**

Click **Mail Now** to send an alerting email immediately.

**Refresh:**

Click **Refresh** to get the latest log status.

## 4.8 Logout

Quick Setup IP Configuration NAT Setup Firewall Setup USB Application System Setup Status & Log **Logout**

To logout from router web page, click **Logout** at the very right of the main menu.



A page will inform you that your logout has completed. If you want to login again, click **Login**.

## Appendix      Factory Default Values

### IP Configuration

WAN Connect Type:	Automatic IP
WAN DNS:	Automatic
PPPoE's MTU:	1492
LAN IP:	192.168.1.100
LAN Subnet Mask:	255.255.255.0
DHCP Server:	Enabled
DHCP Server Starting IP Address:	192.168.1.1
DHCP Server Ending IP Address:	192.168.1.254
RIP:	Disabled
Web Server Port:	80
Ping from WAN:	Enabled
Web Access from WAN:	Disabled
Print Server Access from WAN:	Disabled
FTP Access from WAN:	Disabled
Webcam Access from WAN:	Disabled
DDNS:	Disabled

### NAT

Port Trigger:	Disabled
Virtual Server:	Disabled
Virtual DMZ:	Disabled

### Firewall

IP Filter:	Disabled
MAC Filter:	Disabled
URL Filter:	Disabled

### USB Application

FTP Server:	Disabled
Allow FTP Anonymous Login:	No
Allow FTP Superuser Login:	No
Max. Concurrent FTP Users:	8
FTP Port:	21
Printer Server:	Disabled

### System

Administrator ID:	admin
Administrator Password:	admin
Time Setup:	Use NTP to get time

NTP Server:  
Time Zone:

time.nist.gov  
GMT